

### ABSTRACT

The present invention relates to a polypeptide which excretes drugs such as cancer chemotherapeutic agents from a cell and to a gene coding therefor. More specifically, the present invention relates to a method for predicting a drug transport capability of a mammalian cell by determining a single nucleotide polymorphism(s) of *ABCG2* gene and/or an amino acid polymorphism(s) of ABCG2 polypeptide and also to a polynucleotide, polypeptide, kit, and the like used for the method.